

Restore HD

1: Identification of the Material and Supplier

Product Identifier	Restore HD		
Other Means of Identification	RESTOREHD6X1L.CTN (6x1L)		
Recommended Use	Heavy duty floor and hard surface cleaner		
Supplier	Organisation	Location	Contact Information
	Chemform	7 Kirke St	Phone: 1300 415 278
	ABN: 50 008 905 119	Balcatta WA 6021	Fax: (08) 9344 4360
		Australia	E-Mail: admin@chemform.com.au
			Web: www.chemform.com.au
Emergency Phone Number	Poisons Information Centre (Australia) 13 11 26		

2: Hazard Identification

Classified as hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) criteria of Safe Work Australia and classified as a dangerous good according to Australian Dangerous Goods Code

GHS Classification	Skin corrosion (category 1)
Signal Word	Danger
Hazard Statement(s)	Causes severe skin burns and eye damage



Precautionary Statement(s)	Wear eye protection and protective gloves. Do not breathe mists. Wash hands thoroughly after handling. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water (or shower) Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE. IF EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of container in accordance with local regulations.
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3: Composition/Information on Ingredients

Ingredient	CAS Number	Proportion (% w/w)
Ethanolamine	141-43-5	10-<30%
2-Butoxyethanol	111-76-2	10-<30%
Non-hazardous ingredients	-	to 100%

4: First Aid Measures

General	For advice, contact a Poisons Information Centre (Australia 13 11 26) or a doctor.
Ingestion	If swallowed, DO NOT induce vomiting. If person is conscious, rinse mouth thoroughly with water, first then give a glass of water to drink. If vomiting occurs, wash out mouth again with water and give another glass of water to drink. Seek medical attention urgently.
Eyes	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (Australia 13 11 26) or by a doctor, or for at least 15 minutes.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhalation	If swallowed or inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Do not give direct mouth-to-mouth resuscitation. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.
Symptoms Caused by Exposure	Please refer to Section 11- Toxicological Information.
Medical Attention and Special Treatment	Treat symptomatically as for strong alkali and highly corrosive materials. Can cause corneal burn. Mucosal damage may contraindicate the use of gastric lavage.

5: Fire Fighting Measures

Suitable Extinguishing Equipment	Material itself is not combustible. Extinguish fire using agent suitable for type of surrounding fire. Use foam, dry chemical or carbon dioxide. Keep run-off water out of sewers and water sources.
Specific Hazards Arising from the Chemical	When heated to decomposition will produce irritating fumes.
Special Protective Equipment and Precautions for Fire Fighters	Use water spray to keep fire-exposed containers cool. The following protective equipment for fire fighters is recommended when this material is present in the area of a fire. Liquid-tight chemical protective suit with breathing apparatus.
Hazchem Code	2X

6: Accidental Release Measures

Personal Precautions	Surfaces may be slippery. Increase ventilation. Wear PPE in accordance with section 8. Stop leak if safe to do so. Isolate the spill area. Keep unnecessary personnel away. Clean up immediately to avoid accidents.	
Environmental Precautions	Do NOT allow spilled concentrated product to enter drains, sewers, creeks, dams, rivers or waterways.	
Spills and Disposal	Small Spills Mop or wipe up with a rag or paper towel and dispose of in rubbish. Wash down surface with water.	Large Spills Contain, collect and recycle spilt product if possible otherwise absorb spill with material such as soil, sand, attapulgate, vermiculite. Collect and seal in properly labelled, chemical resistant containers. Wash area with water. Seek disposal options by a licensed waste contractor.

7: Handling and Storage

Precautions for Safe Handling	Wash hands after use. Avoid direct contact with product. Use PPE as described in section 8.
Conditions for Safe Storage	Always replace lid on container after use. Store in a cool dry place out of direct sunlight and out of reach of children.

8: Exposure Controls – Personal Protection

National Exposure Standards	TWA of 3ppm, STEL of 6ppm (Ethanolamine) TWA 20ppm, STEL of 50ppm (2-Butoxyethanol).
Engineering Controls	Avoid generation and inhalation of mists and aerosols. Use in well-ventilated area
Individual Protection	
Eyes/Face	Safety glasses
Hands	Rubber or nitrile gloves
Skin	Protective work wear and chemical resistant footwear
Respiratory	If mists are generated use a chemical respirator.

9: Physical and Chemical Properties

Appearance	Yellow liquid
Odour	Ammonia
pH	11.8 – 12.8
Vapour Pressure	No data available
Vapour Density	No data available
Flash Point	Not applicable
Flammability Limits	Not applicable
Boiling Point	>100°C
Melting Point	<0°C
Specific Gravity	1.0
Solubility	Soluble in water

10: Stability and Reactivity

Chemical Stability	The product is stable under normal conditions.
Possibility of Hazardous Reaction	No hazardous reactions expected when handled in accordance with label directions.
Conditions to Avoid	Avoid extreme heat and high temperatures.
Incompatible Materials	Strong oxidisers and acids.
Hazardous Decomposition Products	No data available

11: Toxicological Information

Ingestion	Abdominal pain, diarrhoea nausea, vomiting. Following long-term or repeated exposure, effects on the blood may be observed.
Eye	Can cause considerable ocular irritation and burns
Skin	Highly corrosive to skin. Irritant dermatitis may result from working with this material. Produces burns, deep ulceration and gelatinous necrotic areas at the site of contact.
Inhalation	The inhalation of mists can cause coughing, drowsiness, throat irritation or nausea.

12: Ecological Information

Ecotoxicity	EC50 – bluegill sunfish (<i>Lepomis macrochirus</i>) >1490mg/L (96 hours) product.
Persistence/Degradability	Not expected to persist in the environment.
Bio-accumulative Potential	The product has a low octanol/water partition coefficient and is therefore not expected to bio-accumulate to any significant degree.
Mobility in Soil	Expected to be mobile in soil.

13: Disposal Considerations

Disposal Methods	The most effective way to dispose of product is to use as was originally intended, in accordance with label instructions. If disposal of large volumes of unwanted or excess product is required, either supply to product to someone who can use it in accordance with label instructions or contact your local council and/or state environmental authority for advice. Dispose of in accordance with Local, State and Federal regulations. Drain containers thoroughly and rinse empty containers with water and use the solution in accordance with label instructions. Recycle packaging at an approved collection point or recycling facility.
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14: Transport Information

UN Number	3267
Shipping Name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S (ETHANOLAMINE)
Class	8
Subsidiary Risk	Not applicable
Packing Group	III
Special Precautions For Users	Ensure all containers are clearly labelled. Keep containers securely sealed and protected against physical damage
Hazchem Code	2X
IERG (HB76)	37
AERG Number	153

15: Regulatory Information

Packaging & Labelling	This product is a Scheduled Poison (S6) and must therefore be stored, maintained and used in accordance with the relevant State Poisons Act. Defined as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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16: Other Information

Prepared By	Brett Amos
Date of Previous Issue	July 2016
Changes Made	Complete GHS review. Ammonia removed from formulation. 27/9/2023 17/4/24 JD – change of pack size from 12x1L to 6x1L
References	Australian Dangerous Goods Code. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice July 2020. Standard for the Uniform Scheduling of Medicines & Poisons (SUSMP). Globally Harmonised System of Classification and Labelling of Chemicals (GHS) (Rev.7 2017)
Contact Person/Point	Australia 24 HOUR EMERGENCY CONTACT Poisons Information Centre 13 11 26
Legal Disclaimer	The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

END OF SAFETY DATA SHEET